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Entrez PubMed  1: [Lin CT, Tsai YC, He L, Calizo R, Chou HH, Chang TC, Soong YK, Hung CF, Lai CH.](#) [Related Articles](#), [Links](#)

 A DNA Vaccine Encoding a Codon-Optimized Human Papillomavirus Type 16 E6 Gene Enhances CTL Response and Anti-tumor Activity. *J Biomed Sci.* 2006 Apr 29; [Epub ahead of print] PMID: 16649071 [PubMed - as supplied by publisher]

2: [Peng S, Trimble C, Ji H, He L, Tsai YC, Macaes B, Hung CF, Wu TC.](#) [Related Articles](#), [Links](#)

 Characterization of HPV-16 E6 DNA vaccines employing intracellular targeting and intercellular spreading strategies. *J Biomed Sci.* 2005 Oct;12(5):689-700. Epub 2005 Nov 9. PMID: 16200349 [PubMed - indexed for MEDLINE]

3: [Peng S, Ji H, Trimble C, He L, Tsai YC, Yeatermeyer J, Boyd DA, Hung CF, Wu TC.](#) [Related Articles](#), [Links](#)

 Development of a DNA vaccine targeting human papillomavirus type 16 oncoprotein E6. *J Virol.* 2004 Aug;78(16):8468-76. PMID: 15280455 [PubMed - indexed for MEDLINE]

4: [Peng S, Tomson TT, Trimble C, He L, Hung CF, Wu TC.](#) [Related Articles](#), [Links](#)

 A combination of DNA vaccines targeting human papillomavirus type 16 E6 and E7 generates potent antitumor effects. *Gene Ther.* 2006 Feb;13(3):257-65. PMID: 16177818 [PubMed - in process]

5: [Santin AD, Hermonat PL, Ravaggi A, Chiriva-Internati M, Zhan D, Pecorelli S, Parham GP, Cannon MJ.](#) [Related Articles](#), [Links](#)

 Induction of human papillomavirus-specific CD4(+) and CD8(+) lymphocytes by E7-pulsed autologous dendritic cells in patients with human papillomavirus type 16- and 18-positive cervical cancer. *J Virol.* 1999 Jul;73(7):5402-10. PMID: 10364287 [PubMed - indexed for MEDLINE]

6: [Kim JW, Hung CF, Juang J, He L, Kim TW, Armstrong DK, Pai SI, Chen PJ, Lin CT, Boyd DA, Wu TC.](#) [Related Articles](#), [Links](#)

 Comparison of HPV DNA vaccines employing intracellular targeting strategies. *Gene Ther.* 2004 Jun;11(12):1011-8. PMID: 14985791 [PubMed - indexed for MEDLINE]

7: Trimble C, Lin CT, Hung CF, Pai S, Juang J, He L, Gillison M, Pardoll D, Wu L, Wu TC. Related Articles, Links  
Comparison of the CD8+ T cell responses and antitumor effects generated by DNA vaccine administered through gene gun, biojector, and syringe. *Vaccine*. 2003 Sep 8;21(25-26):4036-42.  
PMID: 12922140 [PubMed - indexed for MEDLINE]

8: Cassetti MC, McElhiney SP, Shahabi V, Pullen JK, Le Poole IC, Eiben GL, Smith LR, Kast WM. Related Articles, Links  
Antitumor efficacy of Venezuelan equine encephalitis virus replicon particles encoding mutated HPV16 E6 and E7 genes. *Vaccine*. 2004 Jan 2;22(3-4):520-7.  
PMID: 14670335 [PubMed - indexed for MEDLINE]

9: Ji H, Wang TL, Chen CH, Pai SI, Hung CF, Lin KY, Kurman RJ, Pardoll DM, Wu TC. Related Articles, Links  
Targeting human papillomavirus type 16 E7 to the endosomal/lysosomal compartment enhances the antitumor immunity of DNA vaccines against murine human papillomavirus type 16 E7-expressing tumors. *Hum Gene Ther*. 1999 Nov 20;10(17):2727-40.  
PMID: 10584920 [PubMed - indexed for MEDLINE]

10: Lasaro MO, Diniz MO, Reyes-Sandoval A, Ertl HC, Ferreira LC. Related Articles, Links  
Anti-tumor DNA vaccines based on the expression of human papillomavirus-16 E6/E7 oncoproteins genetically fused with the glycoprotein D from herpes simplex virus-1. *Microbes Infect*. 2005 Dec;7(15):1541-50. Epub 2005 Sep 9.  
PMID: 16213178 [PubMed - indexed for MEDLINE]

11: Daemen T, Pries F, Bungener L, Kraak M, Regts J, Wilschut J. Related Articles, Links  
Genetic immunization against cervical carcinoma: induction of cytotoxic T lymphocyte activity with a recombinant alphavirus vector expressing human papillomavirus type 16 E6 and E7. *Gene Ther*. 2000 Nov;7(21):1859-66.  
PMID: 11110419 [PubMed - indexed for MEDLINE]

12: Kim TW, Hung CF, Zheng M, Boyd DA, He L, Pai SI, Wu TC. Related Articles, Links  
A DNA vaccine co-expressing antigen and an anti-apoptotic molecule further enhances the antigen-specific CD8+ T-cell immune response. *J Biomed Sci*. 2004 Jul-Aug;11(4):493-9.  
PMID: 15153784 [PubMed - indexed for MEDLINE]

13: Huang CH, Peng S, He L, Tsai YC, Boyd DA, Hansen TH, Wu TC, Hung CF. Related Articles, Links  
Cancer immunotherapy using a DNA vaccine encoding a single-chain trimer of MHC class I linked to an HPV-16 E6 immunodominant CTL epitope. *Gene Ther*. 2005 Aug;12(15):1180-6.  
PMID: 15800656 [PubMed - indexed for MEDLINE]

14: Chen CH, Wang TL, Ji H, Hung CF, Pardoll DM, Cheng WF, Ling M, Wu TC. Related Articles, Links  
Recombinant DNA vaccines protect against tumors that are resistant to recombinant vaccinia vaccines containing the same gene. *Gene Ther*. 2001 Jan;8(2):128-38.

PMID: 11313782 [PubMed - indexed for MEDLINE]

15: [Kim TY, Myoung HJ, Kim JH, Moon IS, Kim TG, Ahn WS, Sin JI](#) Related Articles, Links

 Both E7 and CpG-oligodeoxynucleotide are required for protective immunity against challenge with human papillomavirus 16 (E6/E7) immortalized tumor cells: involvement of CD4+ and CD8+ T cells in protection.

Cancer Res. 2002 Dec 15;62(24):7234-40.

PMID: 12499264 [PubMed - indexed for MEDLINE]

16: [Hauser H, Shen L, Gu QL, Krueger S, Chen SY](#) Related Articles, Links

 Secretory heat-shock protein as a dendritic cell-targeting molecule: a new strategy to enhance the potency of genetic vaccines.

Gene Ther. 2004 Jun;11(11):924-32.

PMID: 15085173 [PubMed - indexed for MEDLINE]

17: [Cheng WF, Hung CF, Pai SI, Hsu KF, He L, Ling M, Wu TC](#) Related Articles, Links

 Repeated DNA vaccinations elicited qualitatively different cytotoxic T lymphocytes and improved protective antitumor effects.

J Biomed Sci. 2002 Nov-Dec;9(6 Pt 2):675-87.

PMID: 12432234 [PubMed - indexed for MEDLINE]

18: [Santin AD, Hermonat PL, Ravaggi A, Chiriva-Internati M, Pecorelli S, Parham GP](#) Related Articles, Links

 Radiation-enhanced expression of E6/E7 transforming oncogenes of human papillomavirus-16 in human cervical carcinoma.

Cancer. 1998 Dec 1;83(11):2346-52.

PMID: 9840534 [PubMed - indexed for MEDLINE]

19: [Davidson EJ, Boswell CM, Sehr P, Pawlita M, Tomlinson AE, McVey RJ, Dobson J, Roberts JS, Hickling J, Kitchener HC, Stern PL](#) Related Articles, Links

 Immunological and clinical responses in women with vulval intraepithelial neoplasia vaccinated with a vaccinia virus encoding human papillomavirus 16/18 oncoproteins.

Cancer Res. 2003 Sep 15;63(18):6032-41.

PMID: 14522932 [PubMed - indexed for MEDLINE]

20: [Moniz M, Ling M, Hung CF, Wu TC](#) Related Articles, Links

 HPV DNA vaccines.

Front Biosci. 2003 Jan 1;8:d55-68. Review.

PMID: 12456324 [PubMed - indexed for MEDLINE]

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### Search Results - Record(s) 1 through 5 of 5 returned.

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1. Document ID: US 7041500 B2

L29: Entry 1 of 5

File: USPT

May 9, 2006

US-PAT-NO: 7041500

DOCUMENT-IDENTIFIER: US 7041500 B2

TITLE: Insect cell line

DATE-ISSUED: May 9, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20030228696 A1	December 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robinson; Robin A.	Dickerson	MD		US

US-CL-CURRENT: 435/348; 435/235.1

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWMC](#) [Draw](#) [De](#)

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2. Document ID: US 7001995 B1

L29: Entry 2 of 5

File: USPT

Feb 21, 2006

US-PAT-NO: 7001995

DOCUMENT-IDENTIFIER: US 7001995 B1

TITLE: Synthetic human papillomavirus genes

DATE-ISSUED: February 21, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nepper; Michael P	Collegeville	PA		US
McClements; William L.	Doylestown	PA		US
Jansen; Kathrin U.	Doylestown	PA		US
Schultz; Loren D.	Harleysville	PA		US
Chen; Ling	Blue Bell	PA		US

Wang; Xin-Min

Schwenksville PA

US

US-CL-CURRENT: 536/23.1; 424/93.21, 435/320.1, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Drawn D
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3. Document ID: US 5804604 A

L29: Entry 3 of 5

File: USPT

Sep 8, 1998

US-PAT-NO: 5804604

DOCUMENT-IDENTIFIER: US 5804604 A

\*\* See image for Certificate of Correction \*\*

TITLE: Tat-derived transport polypeptides and fusion proteins

DATE-ISSUED: September 8, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frankel; Alan	Tiburon	CA		
Pabo; Carl	Newton	MA		
Barsoum; James G.	Lexington	MA		
Fawell; Stephen E.	Winchester	MA		
Pepinsky; R. Blake	Arlington	MA		

US-CL-CURRENT: 530/324; 530/300, 530/328, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Drawn D
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4. Document ID: US 5747641 A

L29: Entry 4 of 5

File: USPT

May 5, 1998

US-PAT-NO: 5747641

DOCUMENT-IDENTIFIER: US 5747641 A

\*\* See image for Certificate of Correction \*\*

TITLE: Tat-derived transport polypeptide conjugates

DATE-ISSUED: May 5, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frankel; Alan	Tiburon	CA	94920	
Pabo; Carl	Newton	MA	02158	
Barsoum; James G.	Lexington	MA	02173	
Fawell; Stephen E.	Winchester	MA	01890	
Pepinsky; R. Blake	Arlington	MA	02174	

US-CL-CURRENT: 530/300; 530/324, 530/326, 530/350, 530/402[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn De](#)**□ 5. Document ID: US 5719054 A**

L29: Entry 5 of 5

File: USPT

Feb 17, 1998

US-PAT-NO: 5719054

DOCUMENT-IDENTIFIER: US 5719054 A

TITLE: Recombinant virus vectors encoding human papillomavirus proteins

DATE-ISSUED: February 17, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boursnell; Michael E.	Cambridge			GB3
Inglis; Stephen C.	Cambridge			GB3
Munro; Alan J.	Cambridge			GB3

US-CL-CURRENT: 435/320.1; 536/23.72[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn De](#)[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Ref's](#) | [Bkwd Ref's](#) | [Generate OACS](#)

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L26 and papillomavirus.clm.	5

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<input type="checkbox"/>	L29	L26 and papillomavirus.clm.	5
<input type="checkbox"/>	L28	L27 and .5	0
<input type="checkbox"/>	L27	L26 and papillomavirus	200
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<i>DB=DWPI; PLUR=YES; OP=ADJ</i>			
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<input type="checkbox"/>	L14	WO-200208435-A1.did.	0
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<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
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<input type="checkbox"/>	L8	Ertl.in. and virus	11
<input type="checkbox"/>	L7	Ertl.in. and papilloma virus	3
<input type="checkbox"/>	L6	Ertl.in. and papillomavirus	0

<input type="checkbox"/>	L5	Ertl.in.	104
<input type="checkbox"/>	L4	Ertl Peter.in.	2
<input type="checkbox"/>	L3	Ertl Peter F.in.	0
<i>DB=PGPB; PLUR=YES; OP=ADJ</i>			
<input checked="" type="checkbox"/>	L2	L1 and HPV	10
<input type="checkbox"/>	L1	codon usage pattern	108

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